LAKE OKEECHOBEE WATER SUPPLY BACKPUMPING AFTER ACTION REPORT

June 1–12, 2001

Prepared for
Florida Department of Environmental Protection
by
Environmental Monitoring and Assessment Division
and
Everglades Regulation Division
SFWMD

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Table 1. Pump Operation Logs and Daily Flows for S2 and S3.

S2 Pump

Date	(cfs)*1	acre-feet	Pump Log (approximate time)
06/01/2001 Friday	391.76	**777**	pump starts at 3:13 PM
06/02/2001 Saturday	1133.51	**2248**	
06/03/2001 Sunday	1131.64	**2245**	
06/04/2001 Monday	234.9	**466**	pump ends at 5:01 AM
06/05/2001 Tuesday	0	**0**	
06/06/2001 Wednesday	0	**0**	
06/07/2001 Thursday	0	**0**	
06/08/2001 Friday	749.59	**1487**	pump starts at 3:13 PM
06/09/2001 Saturday	1120.11	**2222**	
06/10/2001 Sunday	1063.26	**2109**	pump ends at 10:48 PM
06/11/2001 Monday	0	**0**	
06/12/2001 Tuesday	508.48	**1009**	pump starts at 3:13 PM, ends at 6:00 PM
06/13/2001 Wednesday	0	**0**	
06/14/2001 Thursday	0	**0**	
06/15/2001 Friday	0	**0**	
06/16/2001 Saturday	0	**0**	
06/17/2001 Sunday	0	**0**	
06/18/2001 Monday	0	**0**	

S3 Pump

Date	(cfs)*1	acre-feet	Pump Log (approximate time)
06/01/2001 Friday	0	**0**	
06/02/2001 Saturday	0	**0**	
06/03/2001 Sunday	0	**0**	
06/04/2001 Monday	0	**0**	
06/05/2001 Tuesday	454.16	**901**	pump starts at 12:18 PM
06/06/2001 Wednesday	484.35	**961**	pump ends at 6:40 AM, restarts at 12:40 PM, ends at 6:36 PM
06/07/2001 Thursday	0	**0**	
06/08/2001 Friday	636.26	**1262**	pump starts at 12:18 PM
06/09/2001 Saturday	450.42	**893**	pump ends at 12:03 PM
06/10/2001 Sunday	634.46	**1258**	pump starts at 6:36 AM, ends 10:48 PM
06/11/2001 Monday	0	**0**	
06/12/2001 Tuesday	446.07	**885**	pump starts at 7:10 AM, ends at 6:55 PM
06/13/2001 Wednesday	0	**0**	
06/14/2001 Thursday	0	**0**	
06/15/2001 Friday	0	**0**	
06/16/2001 Saturday	0	**0**	
06/17/2001 Sunday	0	**0**	
06/18/2001 Monday	0	**0**	

note: *1 daily mean flow expressed in cfs

Table 2. S2 Daily Flow, Total Phosphorus, and Total Nitrogen Concentration and Loads for June 1, 2001 through June 12, 2001 Back Pumping Event

Date	Flow	Total Phosphorus (TP)			Total Nitrogen (TN)		
	(acre-feet)	grab (mg/L)	composite (mg/L)	loads (1000kg)	grab (mg/L)	composite (mg/L)	loads (1000kg)
6/1/01	777	(0.091)***1**		0.161	1.511		3.885
6/2/01	2248	0.138	0.168	0.466	3.894	3.911	10.879
6/3/01	2245	0.127	0.101	0.280	4.276	3.193	8.851
6/4/01	466	(1.136)***2**		0.068			2.290
6/5/01	0			0.000			0.000
6/6/01	0		0.119	0.000		3.981	0.000
6/7/01	0			0.000			0.160
6/8/01	1487	0.081		0.183	3.652		7.538
6/9/01	2222	0.108	0.100	0.274	4.116	4.119	11.297
6/10/01	2109	0.103	0.093	0.242	3.808	3.606	9.351
6/11/01	0			0.000			0.000
6/12/01	1009	0.155	0.113	0.158	4.572	3.185	0.000
(6/13/2001)	0			0.000			0.000
(6/18/2001)	0	(0.142)***3**		0.000			0.000
Sum	12562			1.685			54.251

note: All flow data are preliminary estimation. All water quality data are provisional data.

note: Loads are calculated using the auto sampler concentrations, which are flow proportional composite samples.

***1**: pre pumping sample.
***2**: post pumping sample: Contamination with detritus due to the weed filter rack cleaning activity is suspected.
***3:** post pumping sample.

Table 3. S3 Daily Flow, Total Phosphorus, and Total Nitrogen Concentration and Loads for June 5, 2001 through June 12, 2001 Back Pumping Event

Date	Flow	Total Phosphorus (TP)			Total Nitrogen (TN)		
	(acre-feet)	grab (mg/L)	composite (mg/L)	loads (1000kg)	grab (mg/L)	composite (mg/L)	loads (1000kg)
6/1/01	0			0.000			0.000
6/2/01	0	(0.054)*1		0.000	(2.222)*1		0.000
6/3/01	0			0.000			0.000
6/4/01	0			0.000			0.000
6/5/01	901	0.05, 0.071		0.083	1.585		3.030
6/6/01	961	0.061		0.089	2.993	3.004	3.231
6/7/01	0	(0.058)*2	0.075, 0.070	0.000	2.457	3.300, 2.474	0.000
6/8/01	1262	0.05	0.055	0.070	2.033		4.609
6/9/01	893	0.044	0.045	0.050	4.511	3.698	3.263
6/10/01	1258	0.038		0.050	4.255	3.898	4.158
6/11/01	0		0.045, 0.037	0.000		3.464	0.000
6/12/01	885	0.045	0.045	0.051	4.125		3.536
6/13/01	0			0.000		3.902	0.000
(6/18/2001)	0	(0.041)*2	0.047	0.000	(3.615)*2		0.000
Sum	6160			0.393			21.828

note: All flow data are preliminary estimation. All water quality data are provisional data.

note: Loads are calculated using the auto sampler concentrations, which are flow proportional composite samples.

***1**: pre pumping sample.
***2:** post pumping sample.

Table 4. Water Quality Data at S2 During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates								FAC 62-302 Class I Criteria
	06/01/2001	06/02/2001	06/03/2001	06/04/2001	06/08/2001	06/09/2001	06/10/2001	06/12/2001	
Physical									
Temperature (°C)	28.5	27.1	27.8	ND	28.7	28.4	28.3	29.1	
Specific Conductivity (µmhos/cm)	653	874	863	ND	874	912	902	943	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	6.4	3.9	4.2	ND	4.1	3.8	3.4	2.8	Not less than 5.0 mg/L
Water pH (units)	7.9	7.3	7.3	ND	7.3	7.3	7.5	7.1	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	4.3	11.9	ND	29.0	8.4	ND	ND	27.6	Less than or equal to 29 NTU above background
Total Suspended Solids (mg/L)	6.8	16.4	ND	83.0	10.4	ND	ND	43.6	
Color (PCU)	26	86	ND	113	94	ND	ND	124	
Total Dissolved Solids (mg/L)	415	ND	ND	ND	561	ND	ND	572	
Hardness (mg/L)	190.5	ND	ND	ND	319.6	ND	ND	358.0	
Nutrients									
Ammonium as N (mg/L)	0.021	0.205	0.167	0.023	0.126	0.159	0.158	0.213	
Un-ionized Ammonia as NH_3 (mg/L)	0.001	0.003	0.003	ND	0.002	0.003	0.004	0.002	Equal or less than 0.02 mg/L as NH_3
Nitrite as N (mg/L)	0.033	0.086	0.081	0.092	0.093	0.112	0.076	0.081	
Nitrate+Nitrite as N (mg/L)	0.119	1.370	1.870	1.654	1.321	1.527	1.183	1.109	
Nitrate (mg/L)	0.086	1.284	1.789	1.562	1.228	1.415	1.107	1.028	Equal or less than 10 mg/L as N
Total Kjeldahl Nitrogen (mg/L)	1.4	2.5	2.4	7.9	2.3	2.6	2.6	3.5	
Total Dissolved Kjeldahl Nitrogen (mg/L)	1.2	ND	ND	ND	2.1	ND	ND	2.3	
Total Nitrogen (mg/L)	1.5	3.9	4.3	9.5	3.7	4.1	3.8	4.6	
Orthophosphate as P (mg/L)	0.036	0.077	0.075	0.048	0.034	0.074	0.062	0.062	
Total Phosphorus (mg/L)	0.091	0.138	0.127	1.136	0.081	0.108	0.103	0.155	
Total Dissolved Phosphorus (mg/L)	0.049	ND	ND	ND	0.043	ND	ND	0.069	
Silica (mg/L)	8.2	ND	ND	ND	8.7	ND	ND	11.2	
Major Ions									
Chloride (mg/L)	86.6	ND	ND	109.3	93.5	ND	ND	92.7	Equal or less than 250 mg/L
Sulfate (mg/L)	55.8	ND	ND	ND	66.4	ND	ND	70.1	
Alkalinity (mg/L)	133.9	ND	ND	217.4	228.4	ND	ND	281.2	
Sodium (mg/L)	51.0	ND	ND	ND	54.2	ND	ND	52.5	
Potassium (mg/L)	7.4	ND	ND	ND	7.8	ND	ND	8.1	
Calcium (mg/L)	48.9	ND	ND	ND	87.7	ND	ND	99.6	
Magnesium (mg/L)	16.6	ND	ND	ND	24.4	ND	ND	26.5	
Phytoplankton Indicators									
Chlorophyll a (µg/L)	29.9	ND	ND	ND	20.9	ND	ND	12.7	
Chlorophyll a2 (µg/L)	25.5	ND	ND	ND	17.3	ND	ND	8.7	
Chlorophyll b (µg/L)	1.8	ND	ND	ND	1.3	ND	ND	<1	
Chlorophyll c (µg/L)	1.9	ND	ND	ND	2.8	ND	ND	<1	
Pheophytin a (µg/L)	13.1	ND	ND	ND	5.0	ND	ND	6.2	
Carotenoid (µg/L)	12.3	ND	ND	ND	9.7	ND	ND	7.9	
Dissolved Organic Carbon (mg/L)	16.5	ND	ND	ND	30.7	ND	ND	35.0	
Total Organic Carbon (mg/L)	17.2	ND	ND	ND	30.1	ND	ND	33.4	
Trace Metals									
Total Arsenic (µg/L)	3.2	ND	ND	ND	3.7	ND	ND	3.8	Less than or equal to 50 µg/L
Total Cadmium (µg/L)	<0.3	ND	ND	ND	<0.3	ND	ND	<0.3	Less than or equal to calculated value
Total Copper (µg/L)	2.5	ND	ND	ND	2.9	ND	ND	2.6	Less than or equal to calculated value
Total Iron (µg/L)	477	ND	ND	ND	217	ND	ND	470	Less than or equal to 300 µg/L
Total Lead (µg/L)	<0.8	ND	ND	ND	<0.8	ND	ND	<0.8	Less than or equal to calculated value
Total Zinc (µg/L)	<4	ND	ND	ND	<4	ND	ND	<4	Less than or equal to calculated value

ND = No Data Available

Table 4 (Continued). Water Quality Data at S2 During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates								FAC 62-302 Class I Criteria
	06/01/2001*	06/02/2001	06/03/2001	06/04/2001	06/08/2001	06/09/2001	06/10/2001	06/12/2001*	
Pesticides									
ametryn (µg/L)	0.013	---	---	---	0.057	---	---	0.065	
atrazine (µg/L)	0.44	---	---	---	BDL	---	---	0.98	
atrazine desethyl (µg/L)	0.083	---	---	---	0.16	---	---	0.10	
atrazine desisopropyl (µg/L)	0.024	---	---	---	0.033	---	---	0.030	
gamma-BHC (Lindane) (µg/L)	BDL	---	---	---	BDL	---	---	BDL	≤0.019 annual average; 0.08 maximum
metolachlor (µg/L)	BDL	---	---	---	BDL	---	---	BDL	
simazine (µg/L)	0.019	---	---	---	0.021	---	---	0.021	

* average of duplicate values
BDL = below detection limit

Table 5. Water Quality Data at S3 During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates							FAC 62-302 Class I Criteria
	06/05/2001	06/06/2001	06/07/2001	06/08/2001	06/09/2001	06/10/2001	06/12/2001	
Physical								
Temperature (°C)	29.9	29.3	29.0	29.4	28.8	28.9	30.6	
Specific Conductivity (µmhos/cm)	664	720	745	728	851	878	930	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	6.9	8.2	7.0	5.8	4.8	4.7	7.1	Not less than 5.0 mg/L
Water pH (units)	8.2	7.9	7.6	7.7	7.3	7.6	7.4	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	3.7	6.6	6.4	5.3	ND	6.4	4.1	Less than or equal to 29 NTU above background
Total Suspended Solids (mg/L)	6.0	10.0	10.4	7.2	ND	7.2	7.6	
Color (PCU)	30	64	57	59	ND	89	92	
Total Dissolved Solids (mg/L)	397	445	448	445	ND	571	570	
Hardness (mg/L)	199.1	233.8	240.5	238.0	ND	293.3	314.8	
Nutrients								
Ammonium as N (mg/L)	0.014	0.036	0.025	0.067	0.048	0.032	0.020	
Un-ionized Ammonia as NH_3 (mg/L)	0.002	0.003	0.001	0.003	0.001	0.001	0.0005	Equal or less than 0.02 mg/L as NH_3
Nitrite as N (mg/L)	0.013	0.074	0.055	0.041	0.107	0.084	0.079	
Nitrate (mg/L)	0.011	0.071	0.054	0.038	0.106	0.083	0.079	Equal or less than 10 mg/L as N
Nitrate+Nitrite as N (mg/L)	0.049	0.898	0.510	0.483	2.254	1.891	1.757	
Total Kjeldahl Nitrogen (mg/L)	1.5	2.1	1.9	1.9	2.3	2.4	2.4	
Total Dissolved Kjeldahl Nitrogen (mg/L)	1.2	1.5	1.5	1.6	ND	2.2	2.0	
Orthophosphate as P (mg/L)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Phosphorus (mg/L)	0.050	0.061	0.058	0.050	0.044	0.038	0.045	
Total Dissolved Phosphorus (mg/L)	0.016	0.018	0.018	0.014	ND	0.011	0.014	
Silica (mg/L)	7.805	7.093	7.419	6.987	ND	6.289	6.890	
Major Ions								
Chloride (mg/L)	95.1	87.5	90.8	90.0	ND	109.5	116.3	Equal or less than 250 mg/L
Sulfate (mg/L)	59.4	62.0	64.0	59.5	ND	56.8	62.5	
Alkalinity (mg/L)	111.4	155.5	156.6	160.8	ND	209.8	219.7	
Sodium (mg/L)	54.0	48.6	52.4	51.5	ND	61.2	66.2	
Potassium (mg/L)	7.6	8.1	8.0	7.9	ND	7.1	7.6	
Calcium (mg/L)	50.8	64.5	65.3	65.8	ND	91.5	99.1	
Magnesium (mg/L)	17.5	17.7	18.8	17.9	ND	15.7	16.3	
Phytoplankton Indicators								
Chlorophyll a2 (µg/L)	23.3	31.1	27.7	18.5	ND	20.8	23.4	
Chlorophyll b (µg/L)	1.8	1.8	<1	<1	ND	<1	<1	
Chlorophyll c (µg/L)	2.0	3.2	2.7	2.8	ND	2.2	2.3	
Pheophytin a (µg/L)	12.5	10.8	9.5	8.4	ND	5.9	2.5	
Carotenoid (µg/L)	14.9	16.9	15.8	11.4	ND	10.1	10.7	
Dissolved Organic Carbon (mg/L)	19.2	23.5	23.0	22.9	ND	28.3	30.9	
Total Organic Carbon (mg/L)	18.4	22.9	22.6	23.7	ND	28.8	30.2	
Trace Metals								
Total Cadmium (µg/L)	<0.3	<0.3	<0.3	<0.3	ND	<0.3	<0.3	Less than or equal to calculated value
Total Copper (µg/L)	1.3	2.1	2.9	2.2	ND	1.9	1.8	Less than or equal to calculated value
Total Iron (µg/L)	69.1	112.4	ND	77.2	ND	100.3	80.4	Less than or equal to 300 µg/L
Total Lead (µg/L)	<0.8	<0.8	<0.8	<0.8	ND	<0.8	<0.8	Less than or equal to calculated value
Total Zinc (µg/L)	<4	<4	<4	<4	ND	<4	<4	Less than or equal to calculated value

ND = No Data Available

Table 5 (Continued). Water Quality Data at S3 During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates							FAC 62-302 Class I Criteria
	06/05/2001*	06/06/2001*	06/07/2001*	06/08/2001*	06/09/2001	06/10/2001*	06/12/2001	
Pesticides								
amertyn (µg/L)	0.014	BDL	BDL	0.046	---	0.065	BDL	
atrazine (µg/L)	0.43	1.7	1.6	BDL	---	0.83	0.83	
atrazine desethyl (µg/L)	0.071	0.17	0.16	0.15	---	0.13	BDL	
atrazine desisopropyl (µg/L)	0.018	0.034	0.029	0.030	---	BDL	BDL	
gamma-BHC (Lindane) (µg/L)	BDL	BDL	BDL	BDL	---	BDL	0.0058	≤0.019 annual average; 0.08 maximum
metolachlor (µg/L)	BDL	0.14	0.14	0.11	---	BDL	BDL	
simazine (µg/L)	0.014	0.014	0.014	0.016	---	BDL	BDL	

* average of duplicate values
BDL = below detection limit

Table 6A. Water Quality Data at Downstream Monitoring Locations During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates				FAC 62-302
	S2 Downstream		S3 Downstream		
	06/04/2001	06/10/2001	06/04/2001	06/10/2001	Class I Criteria
Physical					
Temperature (°C)	27.7	28.5	29.2	29.6	
Specific Conductivity (µmhos/cm)	887	910	668	890	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	4.3	3.5	5.9	5.1	Not less than 5.0 mg/L
Water pH (units)	7.2	7.1	7.8	7.2	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	9.9	10.8	6.2	7.5	Less than or equal to 29 NTU above background
Total Suspended Solids (mg/L)	10.4	11.6	8.8	7.2	
Color (PCU)	98	110	31	85	
Total Dissolved Solids (mg/L)	566	566	408	557	
Hardness (mg/L)	297.6	335.0	186.3	292.2	
Nutrients					
Ammonium as N (mg/L)	0.225	0.166	0.044	0.032	
Un-ionized Ammonia as NH_3 (mg/L)	0.003	0.002	0.002	0.0004	Equal or less than 0.02 mg/L as NH_3
Nitrite as N (mg/L)	0.087	0.084	0.039	0.085	
Nitrate (mg/L)	0.084	0.082	0.037	0.085	Equal or less than 10 mg/L as N
Nitrate+Nitrite as N (mg/L)	1.650	1.280	0.091	1.918	
Total Kjeldahl Nitrogen (mg/L)	2.7	2.6	1.7	2.4	
Total Dissolved Kjeldahl Nitrogen (mg/L)	2.1	2.2	1.3	1.9	
Orthophosphate as P (mg/L)	0.065	0.060	0.006	0.009	
Total Phosphorus (mg/L)	0.120	0.119	0.073	0.046	
Total Dissolved Phosphorus (mg/L)	0.074	0.067	0.020	0.012	
Silica (mg/L)	9.9	9.5	7.5	6.8	
Major Ions					
Chloride (mg/L)	103.3	92.7	91.1	110.5	Equal or less than 250 mg/L
Sulfate (mg/L)	69.5	64.9	55.4	57.1	
Alkalinity (mg/L)	207.4	256.3	124.5	212.2	
Sodium (mg/L)	59.5	51.3	52.1	61.2	
Potassium (mg/L)	9.2	8.0	7.3	7.0	
Calcium (mg/L)	79.3	93.1	46.6	91.2	
Magnesium (mg/L)	24.2	24.9	17.0	15.7	
Phytoplankton Indicators					
Chlorophyll a (µg/L)	34.0	24.8	50.4	27.7	
Chlorophyll a2 (µg/L)	ND	17.4	43.6	24.7	
Chlorophyll b (µg/L)	1.3	<1	<1	<1	
Chlorophyll c (µg/L)	1.5	3.1	2.7	2.0	
Pheophytin a (µg/L)	7.7	11.2	8.6	3.4	
Carotenoid (µg/L)	11.2	11.3	18.8	11.0	
Dissolved Organic Carbon (mg/L)	30.1	32.1	18.3	27.3	
Total Organic Carbon (mg/L)	29.5	32.5	21.9	28.5	

ND = No Data Available

Table 6B. Water Quality Data at Cuts in the Rim Canal During June 1-12, 2001 Backpumping Events

Parameters	Sampling Dates				FAC 62-302
	Cut 1		Cut 3		
	06/04/2001	06/10/2001	06/04/2001	06/10/2001	Class I Criteria
Physical					
Temperature (°C)	30.0	30.0	30.9	29.3	
Specific Conductivity (µmhos/cm)	697	738	866	865	Not greater than 50% above background or 1,275 µmhos/cm
Dissolved Oxygen (mg/L)	6.8	8.4	9.5	4.4	Not less than 5.0 mg/L
Water pH (units)	7.8	8.2	8.1	7.2	Not less than 6.0 or greater than 8.5 units
Turbidity (NTU)	6.0	3.9	24.3	16.4	Less than or equal to 29 NTU above background
Total Suspended Solids (mg/L)	8.0	5.4	42.8	20.4	
Color (PCU)	32	55	93	80	
Total Dissolved Solids (mg/L)	427	475	534	527	
Hardness (mg/L)	194.3	252.8	281.6	291.8	
Nutrients					
Ammonium as N (mg/L)	0.233	0.011	0.021	0.120	
Un-ionized Ammonia as NH_3 (mg/L)	0.013	0.001	0.003	0.0016	Equal or less than 0.02 mg/L as NH_3
Nitrite as N (mg/L)	0.020	0.065	0.096	0.075	
Nitrate (mg/L)	0.007	0.064	0.093	0.073	Equal or less than 10 mg/L as N
Nitrate+Nitrite as N (mg/L)	0.102	1.034	1.843	1.009	
Total Kjeldahl Nitrogen (mg/L)	1.7	1.9	3.9	2.5	
Total Dissolved Kjeldahl Nitrogen (mg/L)	1.5	1.6	2.0	1.9	
Orthophosphate as P (mg/L)	0.007	0.005	0.054	0.016	
Total Phosphorus (mg/L)	0.055	0.045	0.366	0.114	
Total Dissolved Phosphorus (mg/L)	0.017	0.014	0.067	0.026	
Silica (mg/L)	6.9	6.4	9.5	8.7	
Major Ions					
Chloride (mg/L)	96.8	93.8	105.5	94.0	Equal or less than 250 mg/L
Sulfate (mg/L)	59.8	62.5	70.7	64.6	
Alkalinity (mg/L)	125.6	173.5	198.2	208.3	
Sodium (mg/L)	56.1	52.7	59.7	54.0	
Potassium (mg/L)	7.5	7.5	8.5	7.7	
Calcium (mg/L)	48.5	71.3	74.3	79.0	
Magnesium (mg/L)	17.8	18.2	23.4	22.9	
Phytoplankton Indicators					
Chlorophyll a (µg/L)	33.8	18.4	267.9	40.2	
Chlorophyll a2 (µg/L)	23.6	16.3	249.1	32.0	
Chlorophyll b (µg/L)	1.1	<1	<1	<1	
Chlorophyll c (µg/L)	1.2	<1	19.2	3.0	
Pheophytin a (µg/L)	15.4	2.5	14.3	11.5	
Carotenoid (µg/L)	10.8	7.5	93.4	18.5	
Dissolved Organic Carbon (mg/L)	19.7	23.3	29.1	27.3	
Total Organic Carbon (mg/L)	21.1	24.7	30.3	28.6	

ND = No Data Available

Table 6C. Water Quality Data at Municipal Water Intakes During June 1-12, 2001 Backpumping Events

Monitoring Site	Parameters	Sampling Dates		FAC 62-302 Class I Criteria
		06/04/2001	06/10/2001	
Bell Glades Intakes	***Physical***			
	Temperature (°C)	28.3	28.7	
	Specific Conductivity (µmhos/cm)	912	911	Not greater than 50% above background or 1,275 µmhos/cm
	Dissolved Oxygen (mg/L)	5.4	3.9	Not less than 5.0 mg/L
	Water pH (units)	7.2	7.1	Not less than 6.0 or greater than 8.5 units
	Color (PCU)	103.0	110.0	
	Phytoplankton Indicators			
	Dissolved Organic Carbon (mg/L)	30.8	31.2	
	Total Organic Carbon (mg/L)	30.3	31.1	
Pahokee Intakes	***Physical***			
	Temperature (°C)	ND	33.6	
	Specific Conductivity (µmhos/cm)	ND	602	Not greater than 50% above background or 1,275 µmhos/cm
	Dissolved Oxygen (mg/L)	ND	8.3	Not less than 5.0 mg/L
	Water pH (units)	ND	8.3	Not less than 6.0 or greater than 8.5 units
	Color (PCU)	ND	21.0	
	Phytoplankton Indicators			
	Dissolved Organic Carbon (mg/L)	ND	13.8	
	Total Organic Carbon (mg/L)	ND	14.6	
South Bay Intakes	***Physical***			
	Temperature (°C)	29.9	30.0	
	Specific Conductivity (µmhos/cm)	824	704	Not greater than 50% above background or 1,275 µmhos/cm
	Dissolved Oxygen (mg/L)	7.5	7.7	Not less than 5.0 mg/L
	Water pH (units)	7.7	7.9	Not less than 6.0 or greater than 8.5 units
	Color (PCU)	78.0	40.0	
	Phytoplankton Indicators			
	Dissolved Organic Carbon (mg/L)	26.4	20.5	
	Total Organic Carbon (mg/L)	27.8	21.5	

ND = No Data Available

Table 7. Daily Rainfall (in inches) for Lake Okeechobee, East EAA and West EAA, June 1-12, 2001

Day	Lake Okeechobee	East EAA	West EAA
1	0.58	0.47	0.33
2	0.32	0.43	0.25
3	0.28	0.03	0.24
4	0.05	0.02	0.18
5	0.14	0.05	0.06
6	0.17	0.41	0.65
7	0.20	0.14	0.31
8	0.18	0.72	0.35
9	0.09	0.21	0.28
10	0.09	0.35	0.35
11	0.03	0.02	0.02
12	0.15	0.05	0.00
13			
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Totals	2.28	2.90	3.02

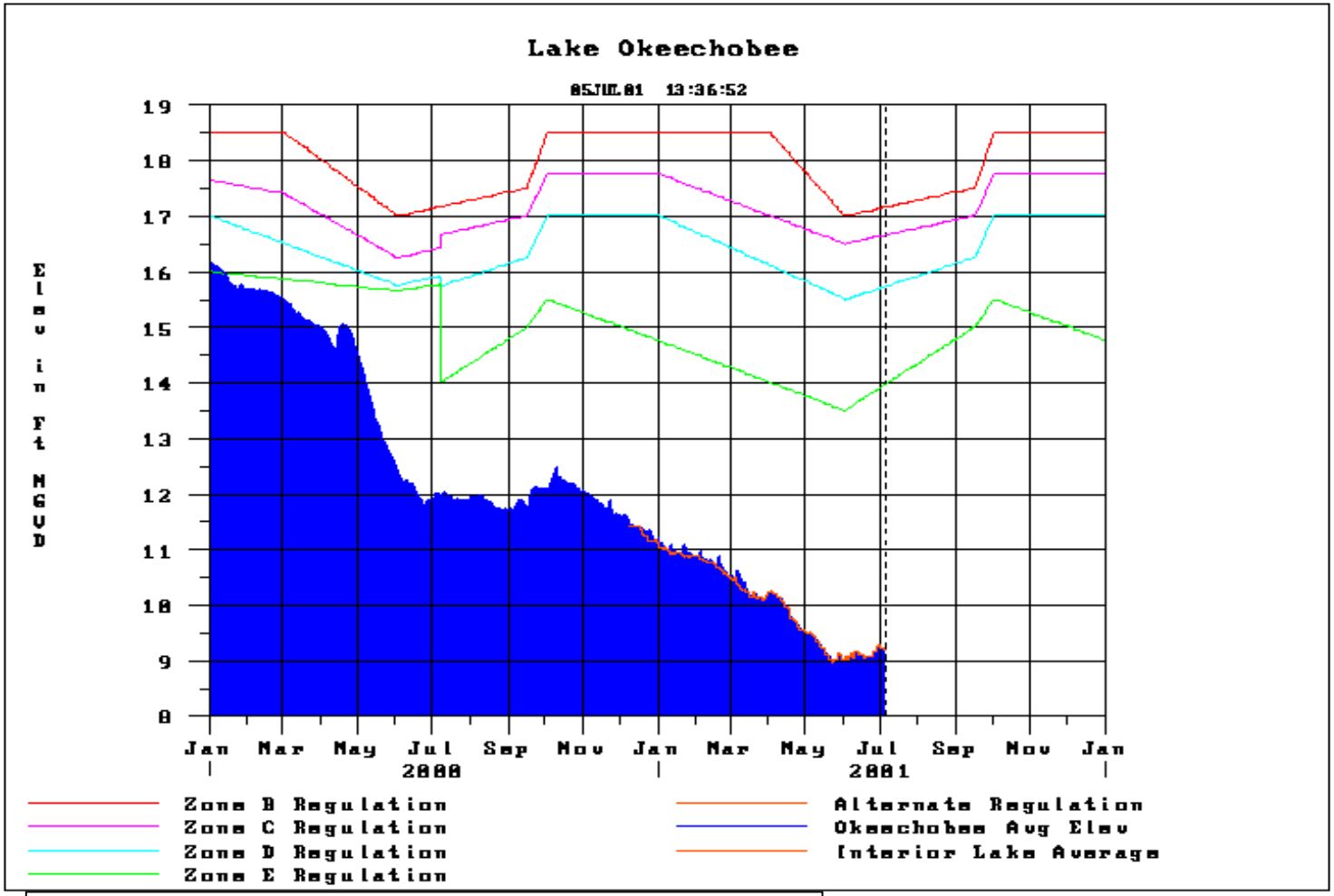

Figure 1. Lake Okeechobee Stage.